

BactoReal® Kit *Tropheryma whipplei*



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Order no.	Reactions	Pathogen	Internal positive control
DHUB01653	50	FAM channel	Cy5 channel

For Research Use Only. Not for use in diagnostic procedures.

Kit contents:

- Detection assay for *Tropheryma whipplei*
- Detection assay + target for internal DNA positive control (control of PCR amplification and DNA extraction)
- DNA reaction mix
- Nuclease-free water
- Positive control for *Tropheryma whipplei*



Background: *Tropheryma whipplei* is a gram-positive bacterium that it is very difficult to cultivate. It is a human pathogen causing Whipple's disease, which is a rare, chronic, systemic illness typically affecting white, middle-aged men. It causes intestinal malabsorption that leads to cachexia. In the majority of cases, multiple organ systems are affected. Symptoms include diarrhea and abdominal pain, joint pain, arthritis, and even dementia. It manifests in the body in various forms and can go undetected for decades before suddenly causing a fatal illness.

Description: BactoReal® Kit *Tropheryma whipplei* is a real-time PCR test detecting DNA of the groEL gene of *Tropheryma whipplei*. It allows the rapid and sensitive detection of *Tropheryma whipplei* from DNA samples purified from biopsies (e.g. with the QIAamp DNA Mini Kit). *Tropheryma whipplei* DNA is detected in FAM channel. The internal DNA positive control (DNA IPC) is detected in Cy5 channel and is used as DNA extraction as well as PCR inhibition control. The DNA IPC target is extracted with the sample.

PCR-platforms: This kit has been validated with Applied Biosystems® 7500 Fast Real-time PCR System (Thermo Fisher Scientific) and tested with LightCycler® 480 Instrument II (Roche) and Mx3005P® QPCR System (Agilent). It is compatible with real-time PCR instruments detecting and differentiating fluorescence in FAM and Cy5 channel.

Specificity and sensitivity: The analytical sensitivity is about 10 target copies of *Tropheryma whipplei* per PCR-reaction. The kit is specific for *T. whipplei*.

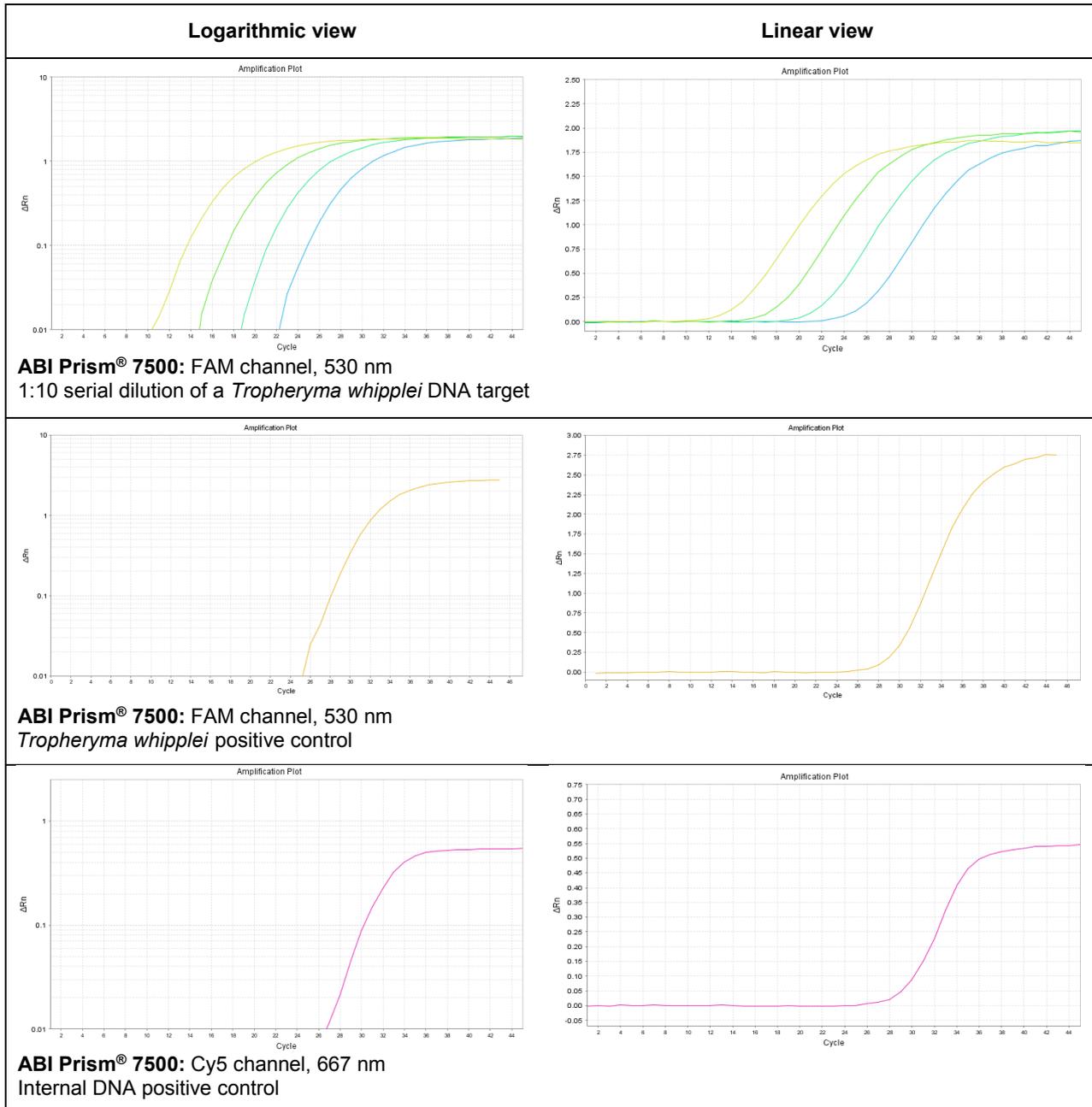


Figure 1 Performance of BactoReal® Kit *Tropheryma whipplei*

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